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N,N-DINITRAMIDE SALTS AS SOLUBILIZING
AGENTS FOR BIOLOGICALLY ACTIVE AGENTS

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A method is provided for enhancing the solubility of an ionizable compound in a lipophilic medium by admixing the compound with an effective solubility-enhancing amount of an N,N-dinitramide salt. The ionizable compound, upon ionization, gives rise to a biologically active cationic species that ionically associates with the N,N-dinitramide anion $\text{N}(\text{NO}_2)_2^-$ following admixture with the N,N-dinitramide salt. The biologically active cationic species may be a pharmacologically active cation, in which case the method is useful for enhancing the penetration of the blood-brain barrier by the pharmacologically active cation. In other embodiments, the ionizable compounds are medical imaging or diagnostic agents, or agricultural agents such as pesticides. Salts of biologically active cations and N,N-dinitramide ion are also provided as novel compositions of matter.

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